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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1591	((construct\$3 or creat\$3 or generat\$3 or develop\$4 or enhanc\$3) with (quer\$3 or search\$3) with (structur\$3 or form or templat\$3)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:02
L2	87	(schema with (instance\$ or class\$2 or inheritan\$3)) and sub\$quer\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:03
L3	2045	((quer\$3 or search\$3) with control\$3 with (templat\$3 or form))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:30
L4	4	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:30
L5	2	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:04
L6	0	4 and @ad<"20010327".	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 15:52
L7	32	2 and @ad<"20010327"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:30
L8	32313	((quer\$3 or search\$3) with (templat\$3 or form))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 15:52

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L9	27	7 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:31
L10	995	"0" and (707/4).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:31
L11	10	9 and (707/4).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 14:31
L12	27	2 and 8 and @ad<"20010327"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 16:04
L13	254	(sub\$quer\$3 with (form or templat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 16:02
L14	17	2 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 15:52
L15	8	14 and @ad<"20010327"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 15:52
L16	0	(sub\$quer\$3 with (form or templat\$3) with schema\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 16:03

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L18	4	17 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 16:03
L19	3	18 and @ad<"20010327"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 16:03
L20	52	13 and 8 and @ad<"20010327"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/31 16:05
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1 Graphical query interfaces for semistructured data: the QURSED system



Michalis Petropoulos, Yannis Papakonstantinou, Vasilis Vassalos

 May 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(6.88 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the QURSED system for the declarative specification and automatic generation of Web-based query forms and reports (*QFRs*) for semistructured XML data. In QURSED, a *QFR* is formally described by its query set specification (*QSS*) which captures the complex query and reporting *capabilities* of the *QFR* and the associations of the query set specification with visual elements that implement these capabilities on a Web page. The design-time component of QURSE ...

2 Mediators over taxonomy-based information sources

Yannis Tzitzikas, Nicolas Spyrtatos, Panos Constantopoulos

 March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(428.09 KB\)](#)

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We propose a mediator model for providing integrated and unified access to multiple taxonomy-based sources. Each source comprises a taxonomy and a database that indexes objects under the terms of the taxonomy. A mediator comprises a taxonomy and a set of relations between the mediator's and the sources' terms, called articulations. By combining different modes of query evaluation at the sources and the mediator and different types of query translation, a flexible, efficient scheme ...

Keywords: Approximate query translation, Information integration, Mediators, Taxonomies

3 Research session: integration and mapping #1: Light-weight domain-based form assistant: querying web databases on the fly

Zhen Zhang, Bin He, Kevin Chen-Chuan Chang

 August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  pdf(311.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Web has been rapidly "deepened" by myriad searchable databases online, where data are hidden behind query forms. Helping users query alternative "deep Web" sources in the same domain (e.g., Books, Airfares) is an important task with broad applications. As a core component of those applications, dynamic query translation (*i.e.*, translating a user's query across dynamically selected sources) has not been extensively explored. While existing works focus on isolated subproblems (


4 Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available:  pdf(6.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

5 Analysis of navigation behaviour in web sites integrating multiple information systems

Bettina Berendt, Myra Spiliopoulou

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(281.14 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

6 UnQL: a query language and algebra for semistructured data based on structural recursion

Peter Buneman, Mary Fernandez, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(414.32 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents structural recursion as the basis of the syntax and semantics of query languages for semistructured data and XML. We describe a simple and powerful query language based on pattern matching and show that it can be expressed using structural recursion, which is introduced as a top-down, recursive function, similar to the way XSL is defined on XML trees. On cyclic data, structural recursion can be defined in two equivalent ways: as a recursive function which evaluates the data t ...

Keywords: Optimization, Query language, Semistructured data, Structural recursion, XML, XSL

7 A visual approach to multimedia querying and presentation



Isabel F. Cruz, Wendy T. Lucas

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 XML query forms (XQForms): declarative specification of XML query interfaces



Michalis Petropoulos, Vasilis Vassalos, Yannis Papakonstantinou

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(515.35 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: XML, XML query language, XSL, query forms & reports

9 Hypermedia semantics: Finding the story: broader applicability of semantics and discourse for hypermedia generation



Lloyd Rutledge, Martin Alberink, Rogier Brussee, Stanislav Pokraev, William van Dieten, Mettina Veenstra

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: pdf(396.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Generating hypermedia presentations requires processing constituent material into coherent, unified presentations. One large challenge is creating a generic process for producing hypermedia presentations from the semantics of potentially unfamiliar domains. The resulting presentations must both respect the underlying semantics and appear as coherent, plausible and, if possible, pleasant to the user. Among the related unsolved problems is the inclusion of discourse knowledge in the generation pro ...

Keywords: RDF, SMIL, clustering, concept lattices, discourse, hypermedia, narrative, semantics

10 Distributed object computing platforms



Asuman Dogac, Cevdet Dengi, M. Tamer Özsu

September 1998 **Communications of the ACM**, Volume 41 Issue 9

Publisher: ACM Press


Full text available: pdf(187.25 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

11 Research sessions: XML I: QURSED: querying and reporting semistructured data



Yannis Papakonstantinou, Michalis Petropoulos, Vasilis Vassalos


June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on**

Management of data SIGMOD '02**Publisher:** ACM PressFull text available:  [pdf\(1.54 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

QURSED enables the development of web-based query forms and reports (QFRs) that query and report semistructured XML data, i.e., data that are characterized by nesting, irregularities and structural variance. The query aspects of a QFR are captured by its query set specification, which formally encodes multiple parameterized condition fragments and can describe large numbers of queries. The run-time component of QURSED produces XQuery-compliant queries by synthesizing fragments from the query set ...

12 Semantic interfaces and OWL tools: How to make a semantic web browser

D. A. Quan, R. Karger

May 2004 **Proceedings of the 13th international conference on World Wide Web****Publisher:** ACM PressFull text available:  [pdf\(484.00 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two important architectural choices underlie the success of the Web: numerous, independently operated servers speak a common protocol, and a single type of client the Web browser provides point-and-click access to the content and services on these decentralized servers. However, because HTML marries content and presentation into a single representation, end users are often stuck with inappropriate choices made by the Web site designer of how to work with and view the content. RDF metadata on the ...

Keywords: bioinformatics, rdf, semantic web, user interface, web services**13 Mining semantics for large scale integration on the web: evidences, insights, and challenges**

Kevin Chen-Chuan Chang, Bin He, Zhen Zhang

December 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(466.64 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

The Web has been rapidly "deepened" -- with myriad searchable databases online, where data are hidden behind query interfaces. Toward large scale integration over this "deep Web," we are facing a new challenge- With its dynamic and ad-hoc nature, such large scale integration mandates *dynamic semantics discovery*. That is, we must *on-the-fly* cope with "semantics" of dynamically discovered sources without pre-configured source-specific knowledge. To tackle this challenge, our initial ...

14 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(524.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

15 Design and development of data-intensive web sites: The Araneus approach



Paolo Merialdo, Paolo Atzeni, Giansalvatore Mecca

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(2.18 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and design transformations that lead from a conceptual specification of the domain of interest to the actual implementation of the site; (b) a tool called Homer, conceived to support the site design and implementation process, by allowing the ...

Keywords: Databases, Internet, WWW, World Wide Web, development

16 Browsing & scrolling: Summarizing personal web browsing sessions



Mira Dontcheva, Steven M. Drucker, Geraldine Wade, David Salesin, Michael F. Cohen

October 2006 **Proceedings of the 19th annual ACM symposium on User interface software and technology UIST '06**

Publisher: ACM Press

Full text available: pdf(676.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a system, implemented as a browser extension, that enables users to quickly and easily collect, view, and share personal Web content. Our system employs a novel interaction model, which allows a user to specify webpage extraction patterns by interactively selecting webpage elements and applying these patterns to automatically collect similar content. Further, we present a technique for creating visual summaries of the collected information by combining user labeling with predefined I ...

Keywords: information management, template-based summarization, webpage extraction patterns

17 Authoring for comprehension: From the writable web to global editability



Angelo Di Iorio, Fabio Vitali

September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia: HYPERTEXT '05**

Publisher: ACM Press

Full text available: pdf(695.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The technical and competence requirements for writing content on the web is still one of the major factors that widens the gap between authors and readers. Although tools that support an easy approach to web writing, such as blogs and wikis, are becoming increasingly important and mainstream, they still lack in terms of layout and typographical sophistication, and, most importantly, only allow local editing (on the pages that are stored by the application itself). In this paper we re-propose an ...

Keywords: collaboration, customization, data collection, global editability, web authoring

18 Software engineering, HCI techniques and Java technologies joined to develop web-

**based 3D-collaborative virtual environments**

Rolando Menchaca, Leandro Balladares, Rolando Quintero, Chadwick Carreto
October 2005 **Proceedings of the 2005 Latin American conference on Human-computer interaction CLIHC '05**

Publisher: ACM Press

Full text available: [pdf\(500.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we describe a set of tools, based on software engineering, HCI techniques and Java technologies, to support the software development process of 3D Web-based collaborative virtual worlds (CVE) populated by non autonomous interactive entities. This work is a first effort to define a methodology supported by design, analysis and implementation tools that assist the development of Web-based CVE. Our proposal emphasizes on the collaboration aspects among the entities that populate the ...

Keywords: 3D collaborative virtual environments, Java technologies, human computer interaction, object oriented programming, software engineering

19 Web-based personalization and management of interactive video

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(611.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

20 Annotations: Advene: active reading through hypervideo

Olivier Aubert, Yannick Prié

September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05**

Publisher: ACM Press

Full text available: [pdf\(665.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Active reading and hypermedia usage are an integral part of scholar daily practices, but the full exploitation of their potentialities still lies far ahead. In the search for new methods and tools, we focus in this article on the use of audiovisual material in a scholar context. One of the results of active reading applied to audiovisual material can be hypervideos, that we define as views on audiovisual documents associated with an annotation structure. The notion of hypervideo is useful to ana ...

Keywords: advene, annotation, audiovisual information visualisation, document template, hypervideo, sharing, time and synchronisation

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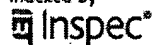
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